



Mr. Bruce M. Wilding

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Significant research in natural gas liquefaction technologies, fuel delivery systems, and manufacturing engineering

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Licensing information

For information on licensing INEEL technologies such as those developed by Mr. Wilding, contact Technology Outreach Account Executive:

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Education: Mr. Bruce M. Wilding received his B.S. in manufacturing engineering technology from Brigham Young University in 1984.

Work experience: Mr. Wilding joined the INEEL in 1989 after five years as senior manufacturing engineer at General Dynamics Corporation in Pomona, Calif. At INEEL Mr. Wilding initiated and obtained funding for the

INEEL robotics program. He has served as national coordinator for the Mixed Waste Robotics Technology Development Program and national representative for the INEEL Robotics Technology Development Program. Mr. Wilding also initiated and obtained funding for the INEEL robotics program. Since 1996, Mr. Wilding has been the INEEL's natural gas products project manager.

The natural gas program is focused on developing and demonstrating technology for the natural gas industry. Several new technologies have been developed such as a new small-scale natural gas liquefaction process, new CO₂ removal process, and a low cost liquid and compressed natural gas vehicle fuel station. These technologies are being demonstrated at several sites and are being licensed to industry. Development activities are focused on cost reduction, systems testing, and performance improvement. His responsibilities include project management and oversight, technical research and development, systems engineering, obtaining research funding and licensing the technologies to industry.

Professional endeavors: Mr. Wilding's research interests include technologies for robotic and automated manufacturing, natural gas processing and delivery systems, and a variety of manufacturing engineering technologies.

Patents:

U.S. Patent No. 6,379,411 -- Two Stroke Engine Exhaust Emissions Separator

U.S. Patent No. 6,551,385 -- Two Stroke Engine Exhaust Emissions Separator

U.S. Patent No. 6,581,409 -- Apparatus for the Liquefaction of Natural Gas and Methods Related to Same

U.S. Patent No. 6,105,390 -- Apparatus and Process for the Refrigeration, Liquefaction and Separation of Gases with Varying Levels of Purity

U.S. Patent No. 6,425,263 -- Apparatus and Process for the Refrigeration, Liquefaction and Separation of Gases with Varying Levels of Purity

U.S. Patent No. 6,125,637 -- Systems for Delivering Liquefied Natural Gas to an Engine

U.S. Patent No. 6,494,191 -- Systems and Methods for Delivering Liquefied Gas to an Engine

U.S. Patent No. 6,619,273 -- Systems and Methods for Delivering Liquefied Natural Gas to an Engine